

ABSTRACT OF THE DISCLOSURE

According to a digital linearizing method, a digital input signal on a first path is operated with an output signal of a main amplifying unit, to thus detect distortion components included in the output signal of the main amplifying unit. A digital input signal on a second path is correlated with the detected distortion components, to thus adaptively control a gain of the digital input signal on the second path during the detection of the distortion components. Therefore, according to the above method, it is possible to effectively and correctly remove the distortion components included in the output signal of the main amplifying unit by amplifying the detected distortion components and coupling the amplified distortion components with the output signal of the main amplifying unit.